## Lab Dept:

**Draw Volume:** 

## Anatomic Pathology

## Test Name: POSTMORTEM SCREENING

## **General Information**

Lab Order Codes:	PMSB
Synonyms:	SIDS evaluation; Metabolic autopsy; FAO Disorder screening
CPT Codes:	83789 – Mass spectrometry and tandem mass spectrometry
Test Includes:	Reports of abnormal acylcarnitine profiles.
Logistics	
Test Indications:	Useful for Postmortem evaluation of infants or children who have died suddenly or unexpectedly. Testing is particularly recommended under the following circumstances: Family history of sudden infant death syndrome (SIDS) or other sudden unexpected deaths; Family history or Reye syndrome; Maternal complications of pregnancy; Lethargy, vomiting, fasting in the 48hrs prior to death; Allegation of child abuse; Macroscopic findings at autopsy (Fatty infiltration of the liver, Dilated or hypertrophic cardiomyopathy); or Autopsy evidence of infection that routinely would not represent a life-threatening event.
Lab Testing Sections:	Chemistry - Sendouts
Referred to:	Mayo Medical Laboratories (MMLTest: PMSBB)
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	2 - 16 days
Special Instructions:	See Collection
Specimen	
Specimen Type:	Blood and bile
Container:	Heparin-containing tube for blood, Mayo Supply T525

50 uL of blood and 50 uL of bile (Minimum: 25 uL blood and 25 uL bile)

Processed Volume:	N/A
Collection:	<ul> <li>Collect blood in a heparin-containing tube and collect bile by direct puncture of the gallbladder. Use Mayo Medical Laboratories "Postmortem Screening Card" (supply T525). Drop 25 uL of blood onto each circle on 1 end of the card. Drop 25 uL of bile onto each circle on the opposite end of the card. Allow the card to dry at ambient temperature in a horizontal position for 3 or more hours. Fill out information on page 2 of collection card.</li> <li>Do not expose specimen to heat or direct sunlight.</li> <li>Do not stack wet specimens.</li> </ul>
	Keep specimen dry.
Special Processing:	Lab Staff: Store and ship at room temperatures. Forward promptly.
Patient Preparation:	None
Sample Rejection:	Specimens other than blood and bile spots
Interpretive	
Reference range:	Quantitative results are compared to a constantly updated range, which corresponds to the 5-95 percentile interval of all postmortem cases brought to our attention.
Critical Values:	N/A
Limitations:	Both blood and bile specimens must be collected in order to detect and independently confirm the largest possible number of disorders.
	In cases with a higher suspicion due to the recognition of 1 or more risk factors, collection of frozen liver and skin biopsy is also recommended for further testing and enzymatic/molecular studies.
	In comparison to living individuals, profiles of postmortem blood specimens generally show a nonspecific increase of short chain species.
	Patients with secondary carnitine deficiency may display uninformative acylcarnitine profiles in blood, but not in bile.
Methodology:	Electrospray Tandem Mass Spectrometry (MS/MS)
References:	Mayo Medical Laboratories Web Page January 2018